MWPHARM++ USER MANUAL

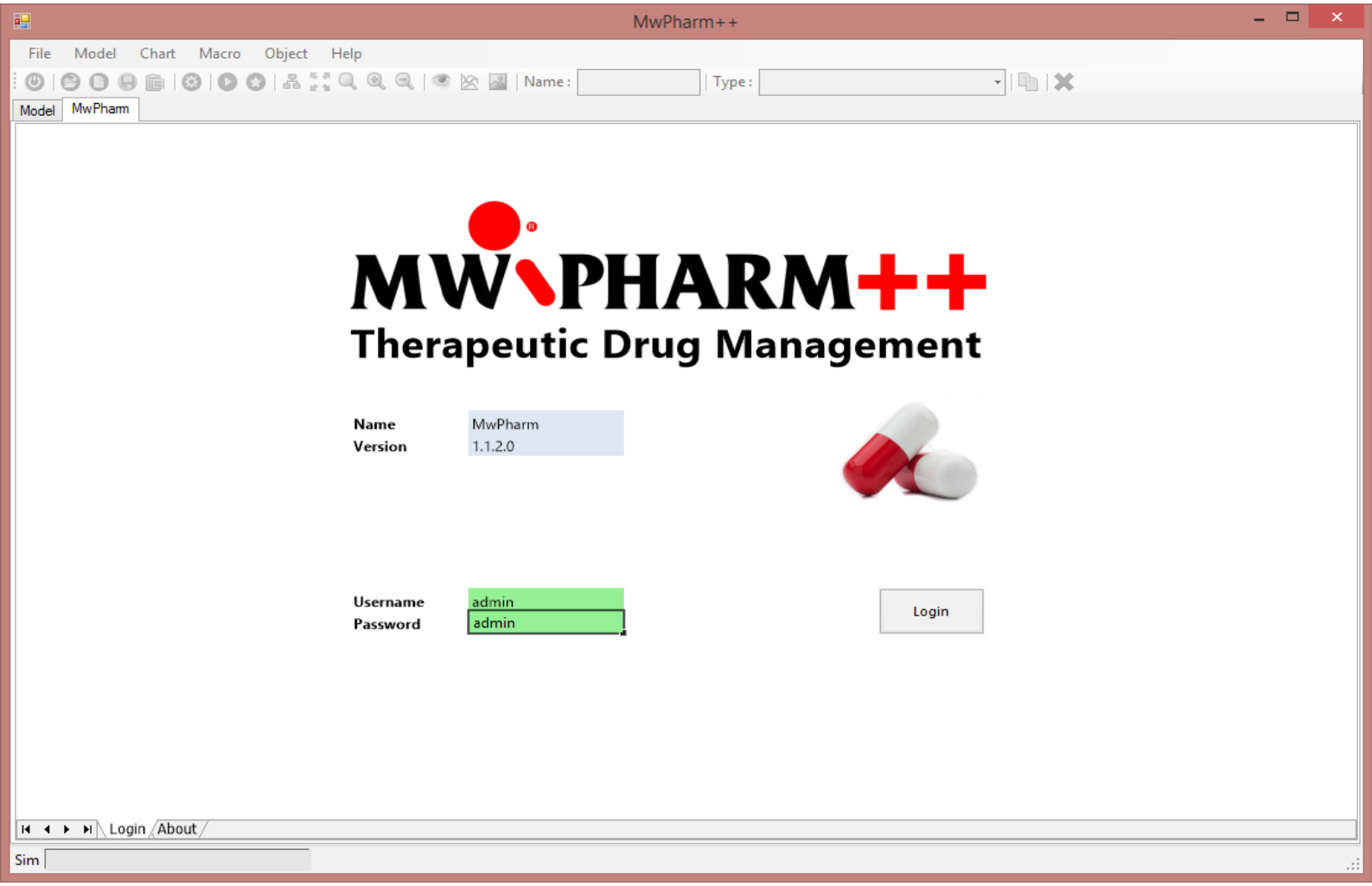
LOGIN SCREEN

After launch and load it is necessary to log in. By default (until the user changes it) via:

Username: **admin** and Password: **admin** or

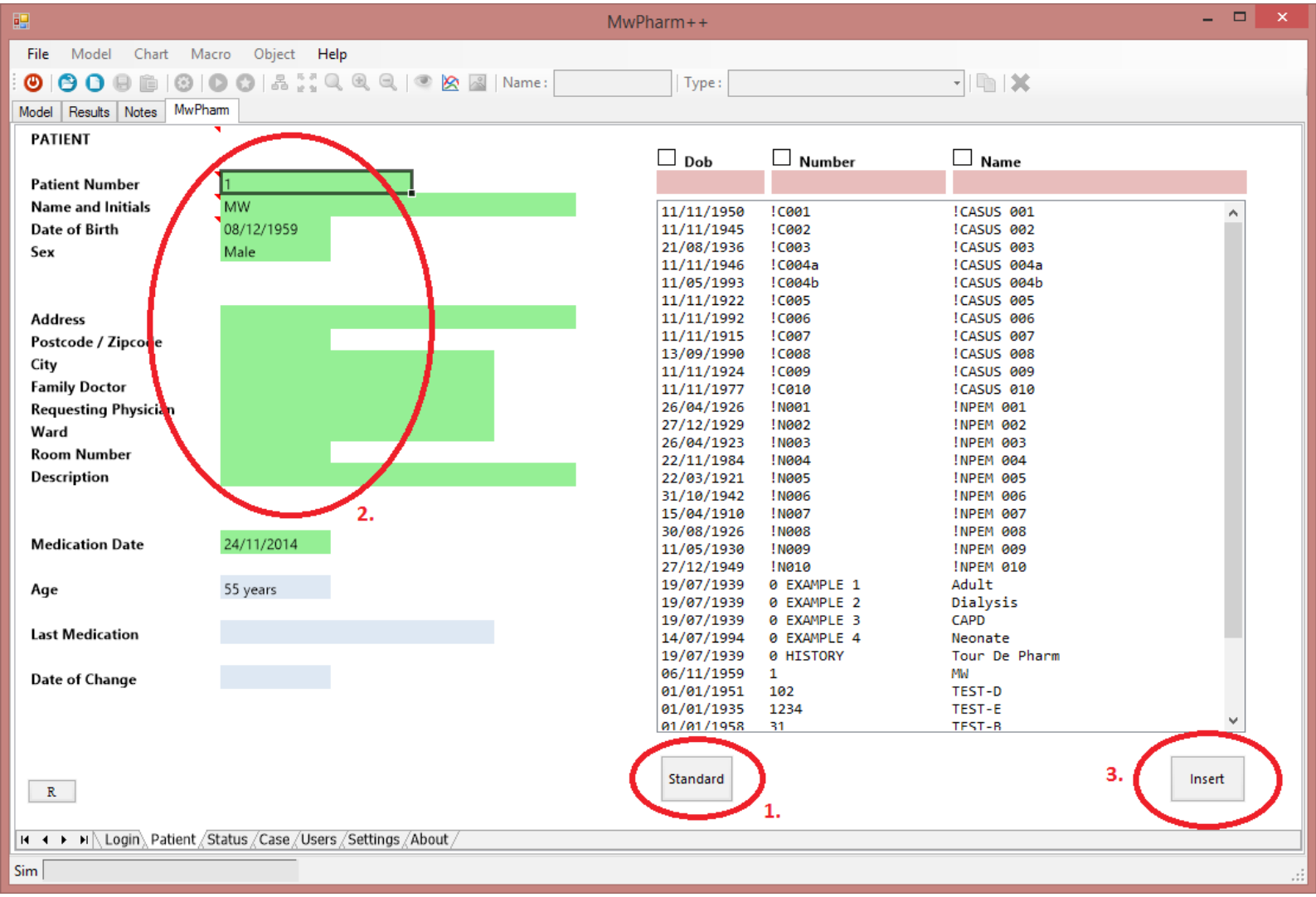
Username: **user** and Password: **user**.

New version supports **multiple user accounts** – each user can have their own drug and patient database, or partially or fully shared with another specific user.

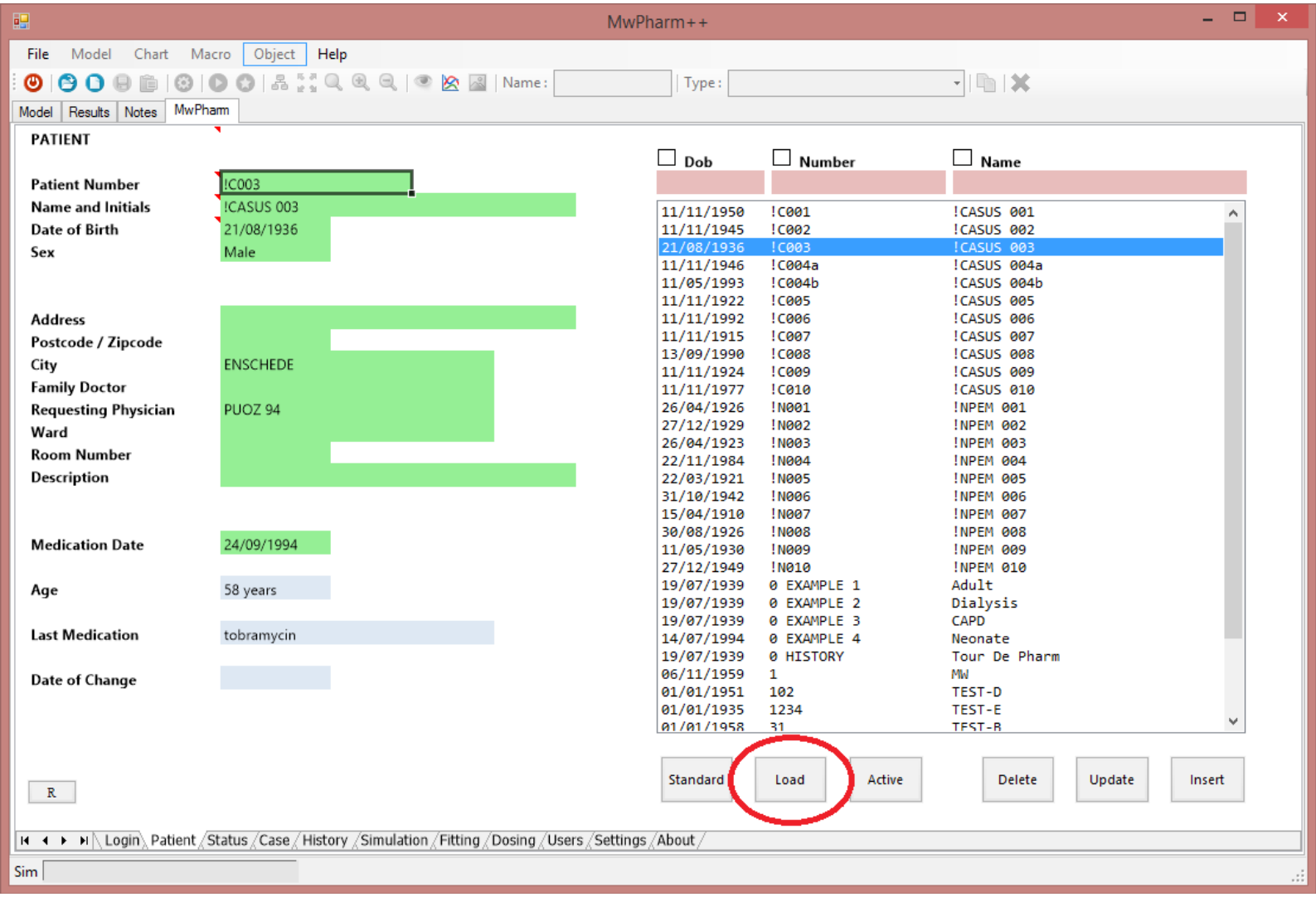


PATIENT SCREEN

Click on **Standard** button to create new record in the patient database. Fill the Patient Number, Name, Date of Birth and Sex and click on **Insert** button. New patient will be inserted into the database.

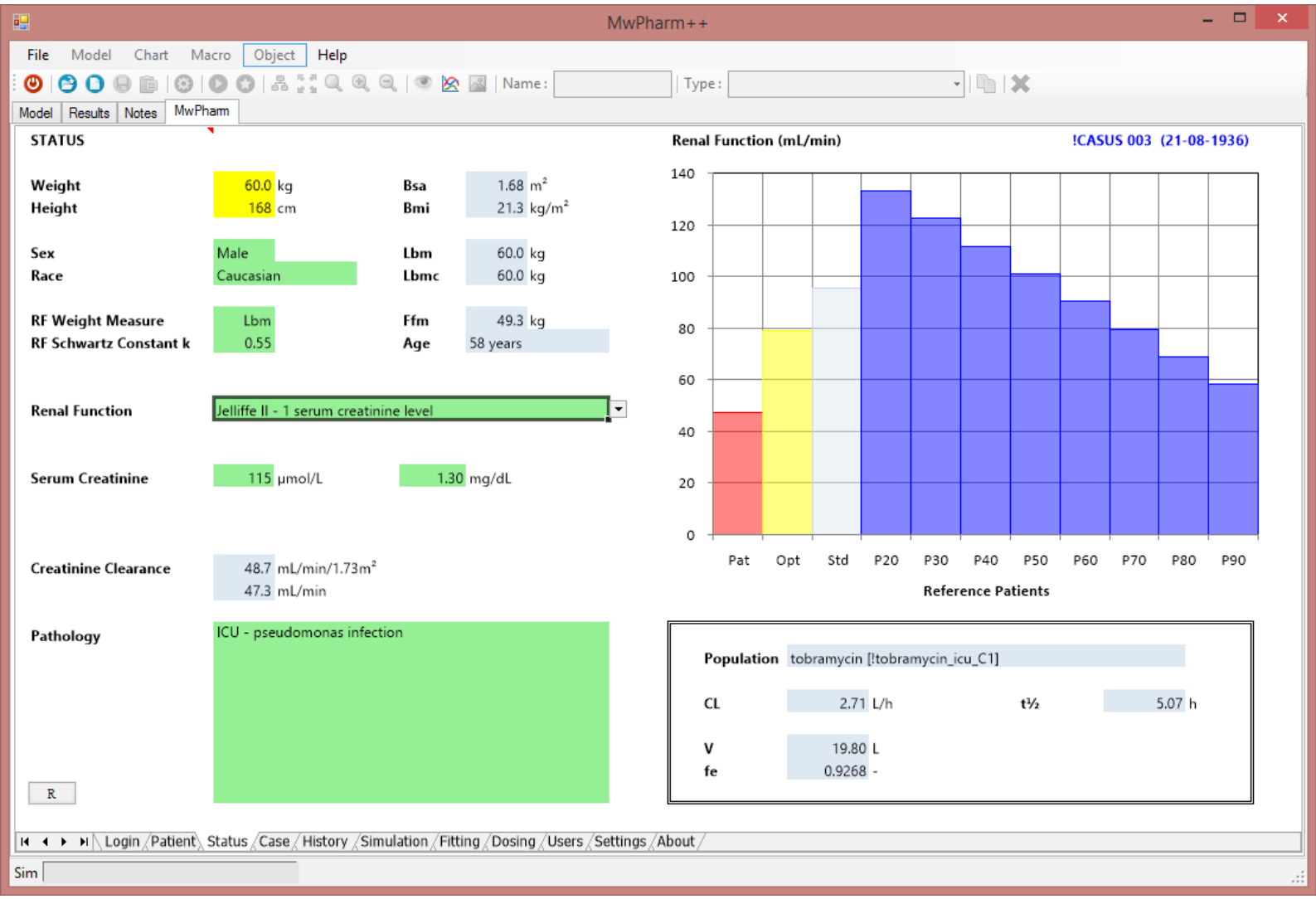


Select the patient and click on **Load** button to load existing patient from the database.

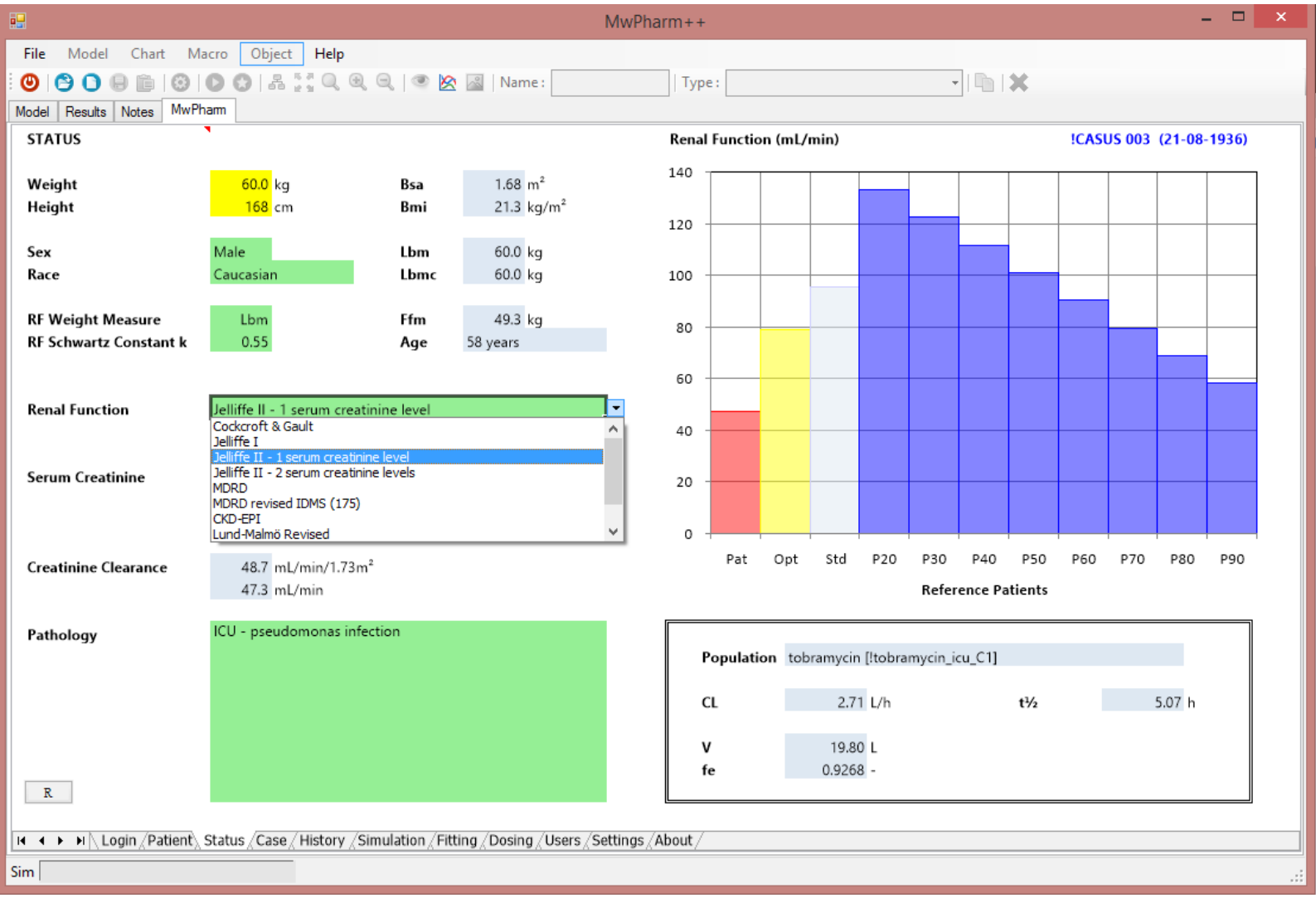


STATUS SCREEN

Specify the data of your patient: weight, height, sex, etc.

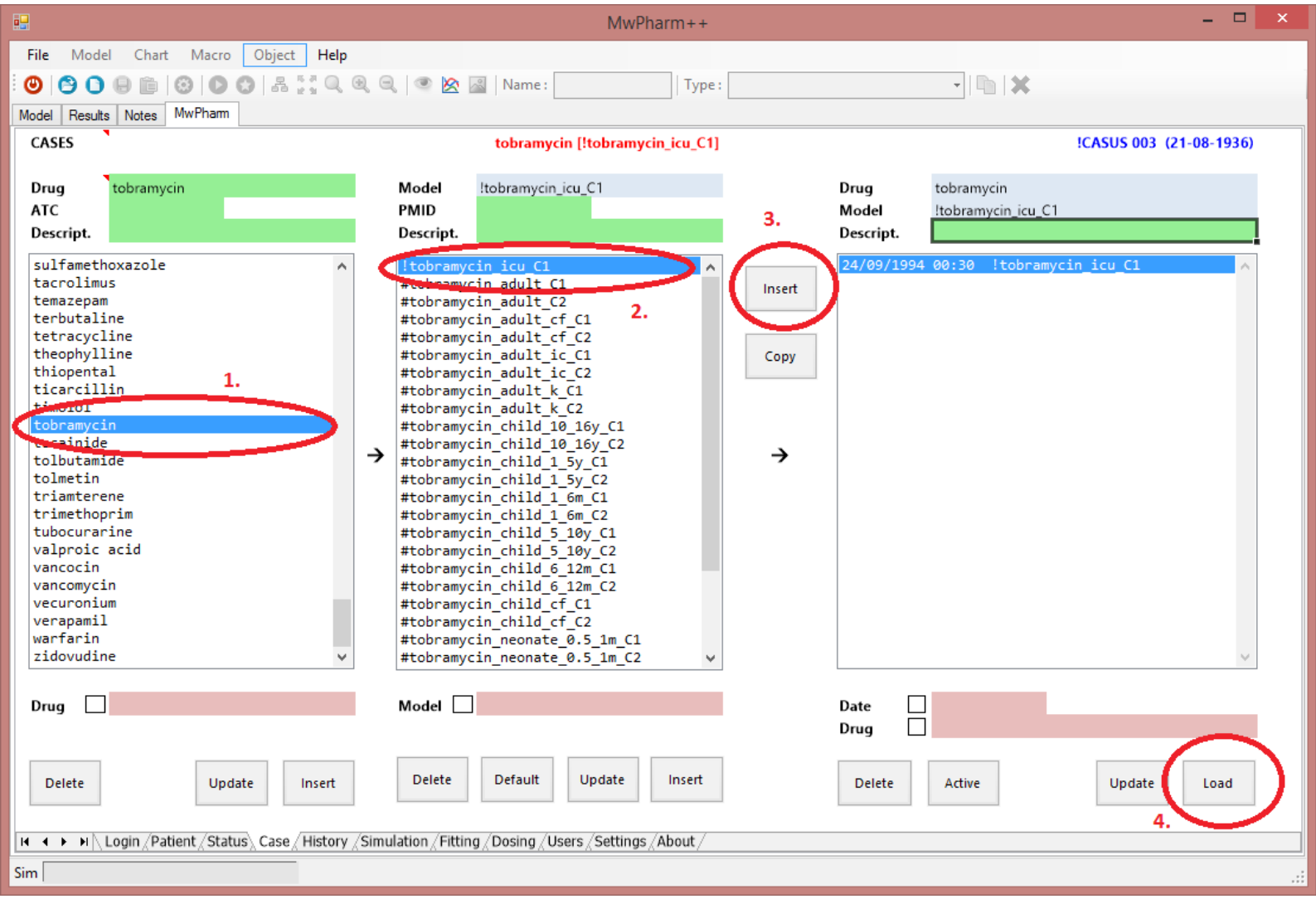


Select apropriate renal function:



CASE SCREEN

To administer a drug to the patient select appropriate one from the left column (1). In the middle column will show the drug for specific groups of patients (specific PK parameters). By selection the drug from the middle column (2) and clicking on **Insert** button (3) is the drug assigned to the patient. Application newly allows user to define its own "cases" – user can change PK parameters of the particular drug but at the same time not overwrite the original parameters of the drug. To continue to the History screen, click on **Load** button (4).



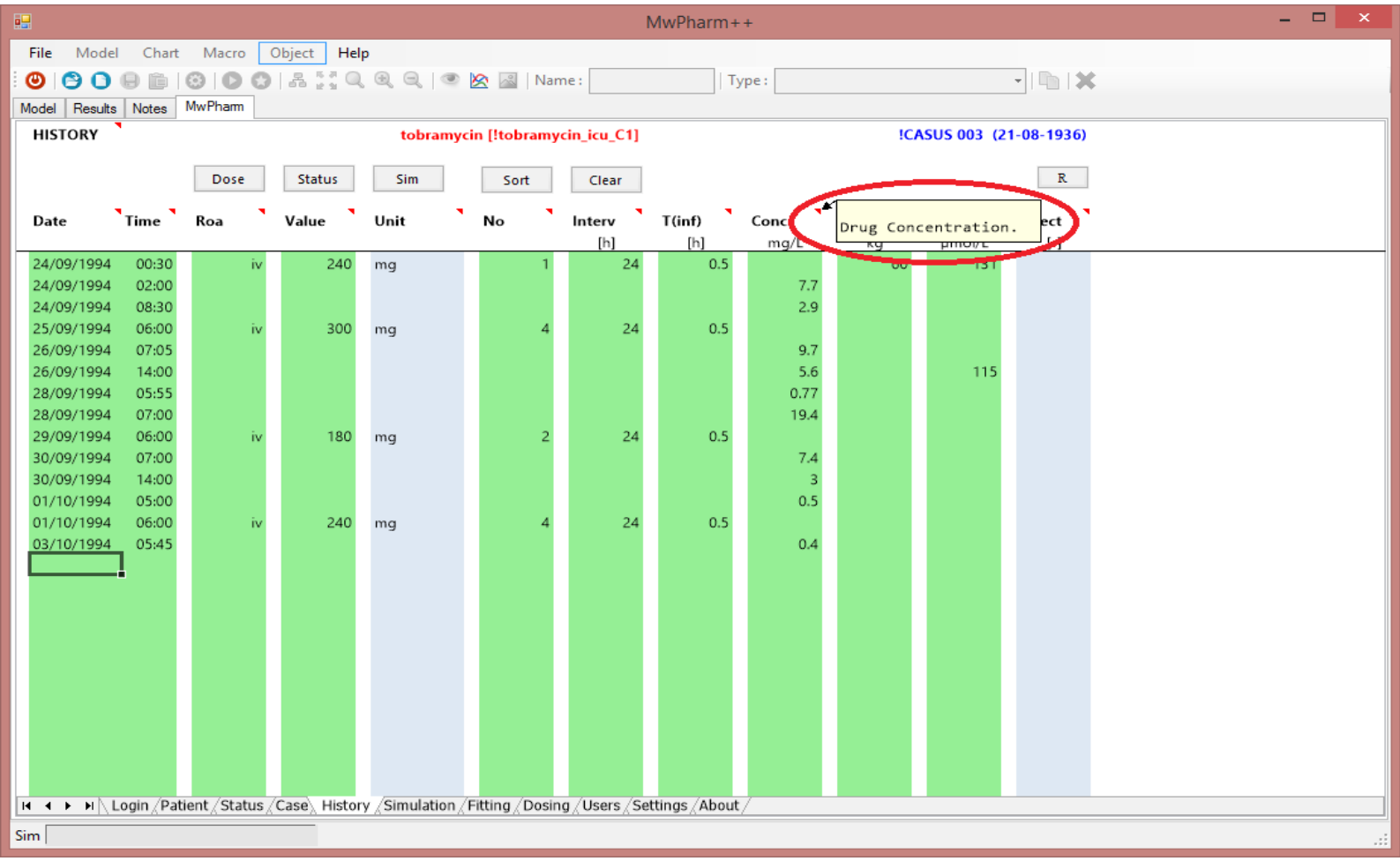
HISTORY SCREEN

Fill the drug administration history: date, time, road of administration and dosing.

Moving cursor to the red triangles, the help will show.

To run the simulation, click on **Sim** button or move to the Simulation screen.

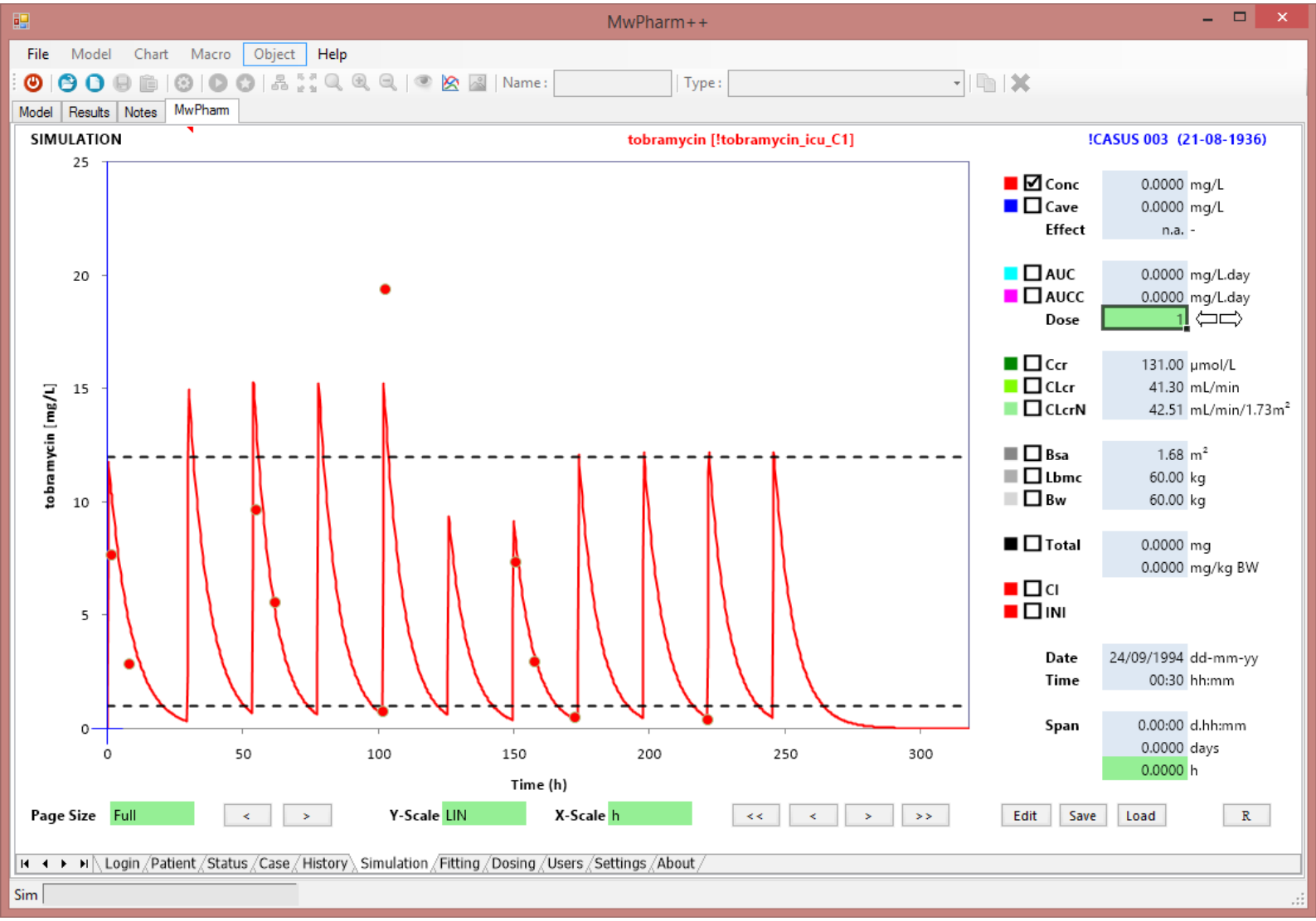
To save the patient history, get back to the Case screen and click on **Update** button under right column.


MwPharm++
File Model Chart Macro Object Help
Name :
Type :
Model Results Notes MwPharm
HISTORY
tobramycin [!tobramycin_icu_C1]
!CASUS 003 (21-08-1936)
Dose Status Sim Sort Clear R
Drug Concentration.
Date Time Roa Value Unit No Interv [h] T(inf) [h] Conc mg/L
24/09/1994 00:30 iv 240 mg 1 24 0.5
24/09/1994 02:00 7.7
24/09/1994 08:30 2.9
25/09/1994 06:00 iv 300 mg 4 24 0.5
26/09/1994 07:05 9.7
26/09/1994 14:00 5.6
28/09/1994 05:55 0.77
28/09/1994 07:00 19.4
29/09/1994 06:00 iv 180 mg 2 24 0.5
30/09/1994 07:00 7.4
30/09/1994 14:00 3
01/10/1994 05:00 0.5
01/10/1994 06:00 iv 240 mg 4 24 0.5
03/10/1994 05:45 0.4
Login Patient Status Case History Simulation Fitting Dosing Users Settings About
Sim

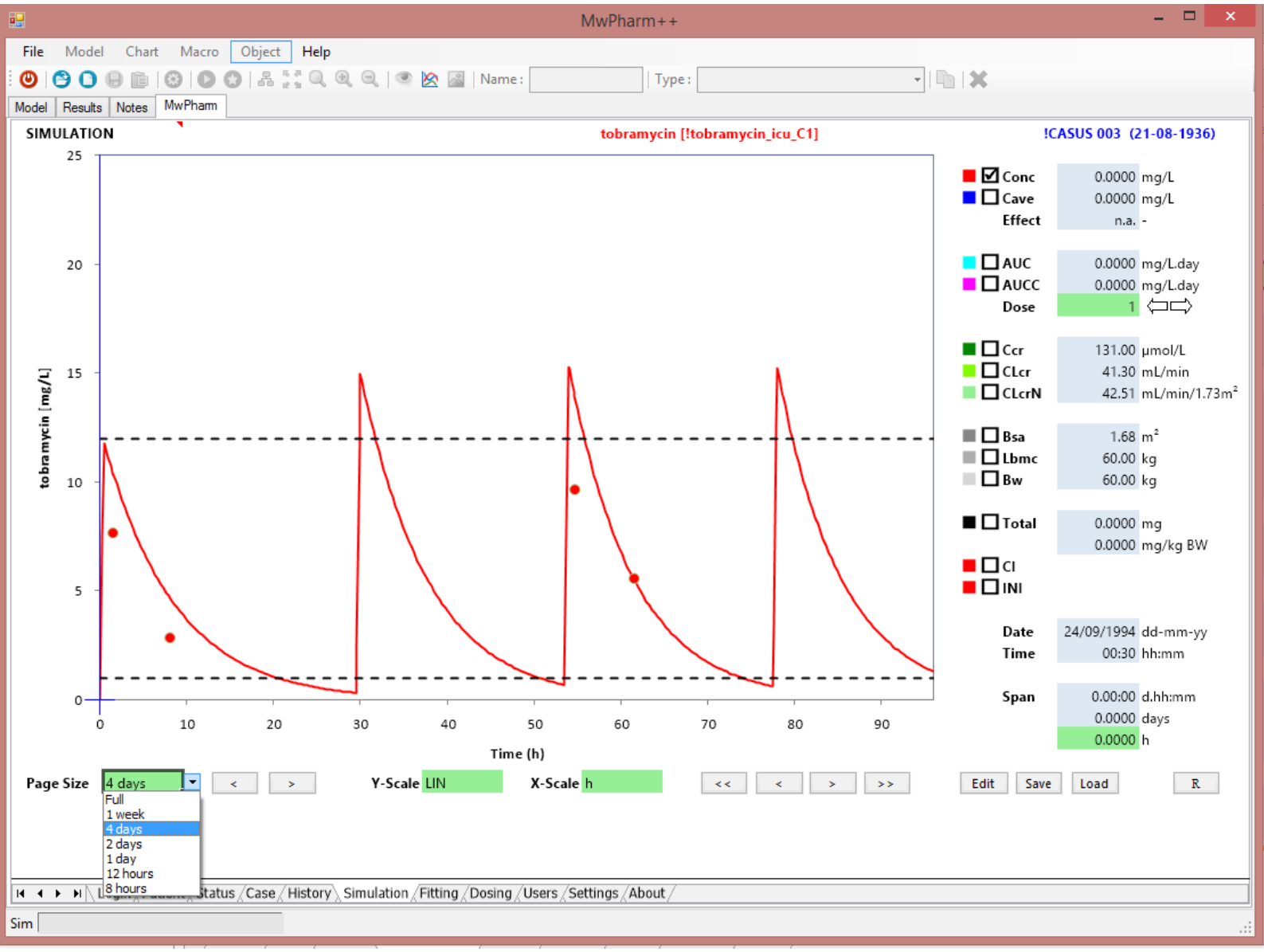
SIMULATION SCREEN

By cheching the boxes, user can show different curves in the graph: concentration, average concentration, AUC (under every peak), AUCC (from zero to the infinity), creatini clearance etc.

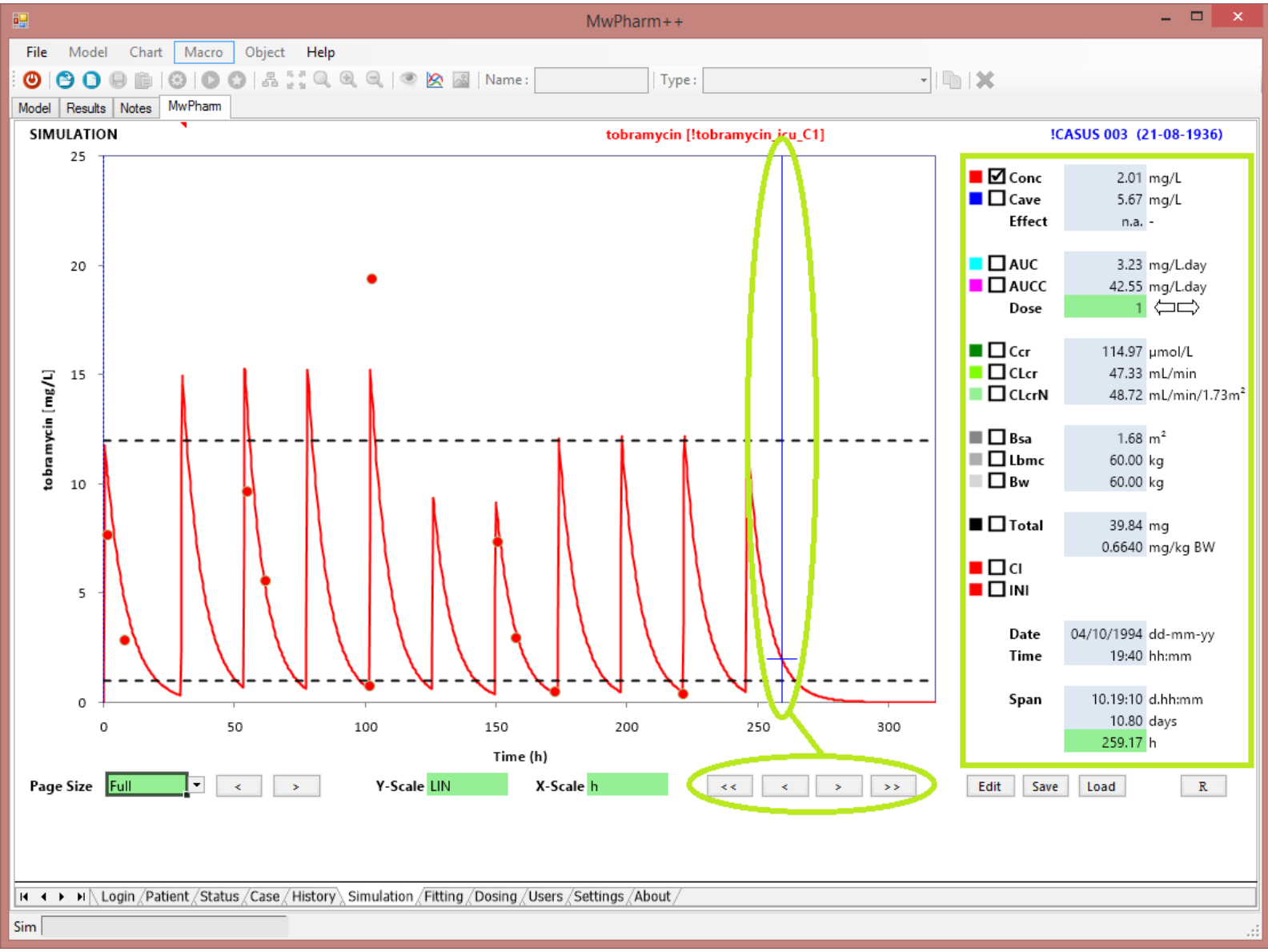
To run the fitting, move to the Fitting screen.



To zoom the graph, select particular time interval.



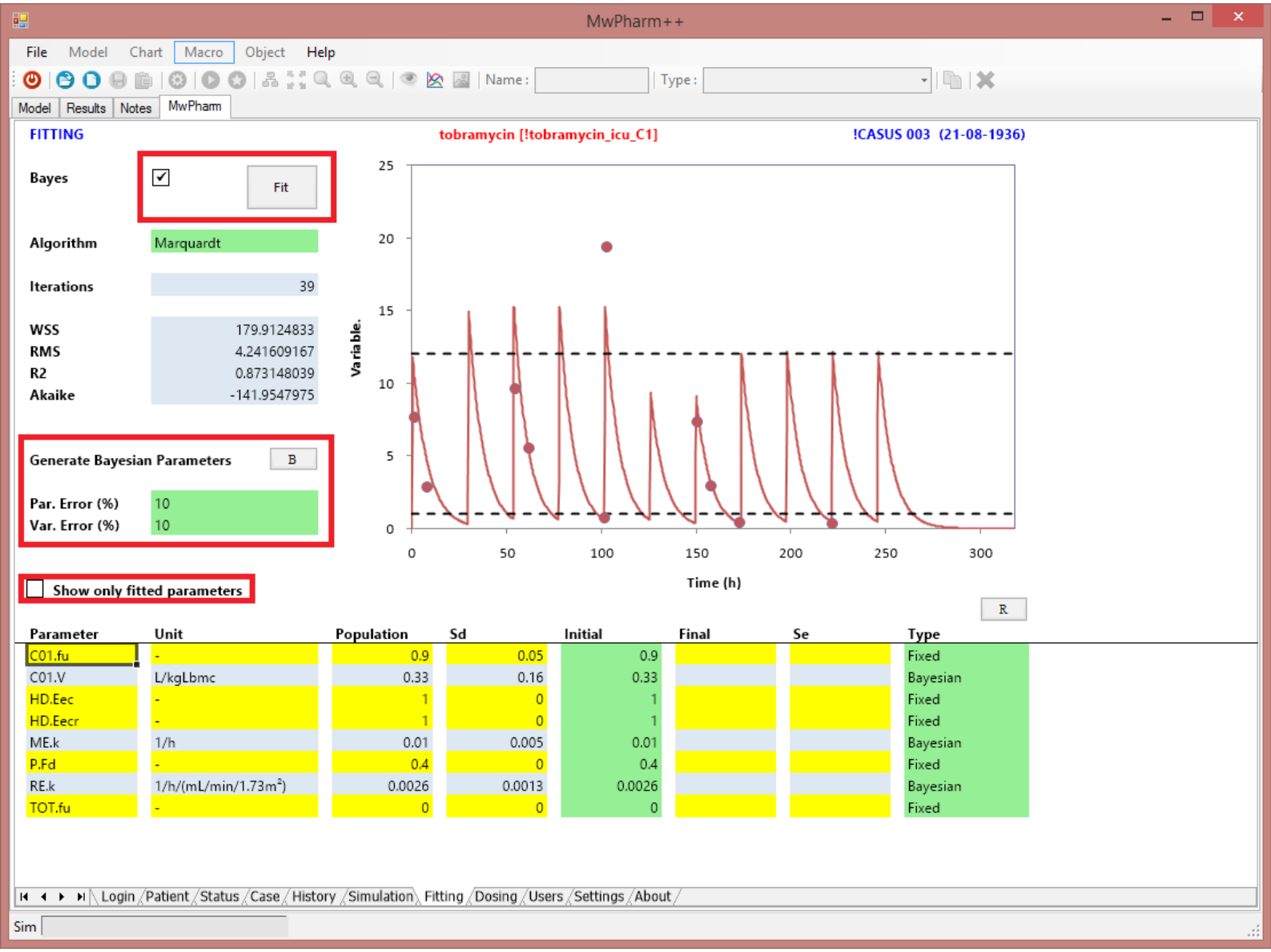
To find out exact concentration, AUC etc. use the **arrow** buttons to move the blue indicator. Values will show on the right side of the screen.



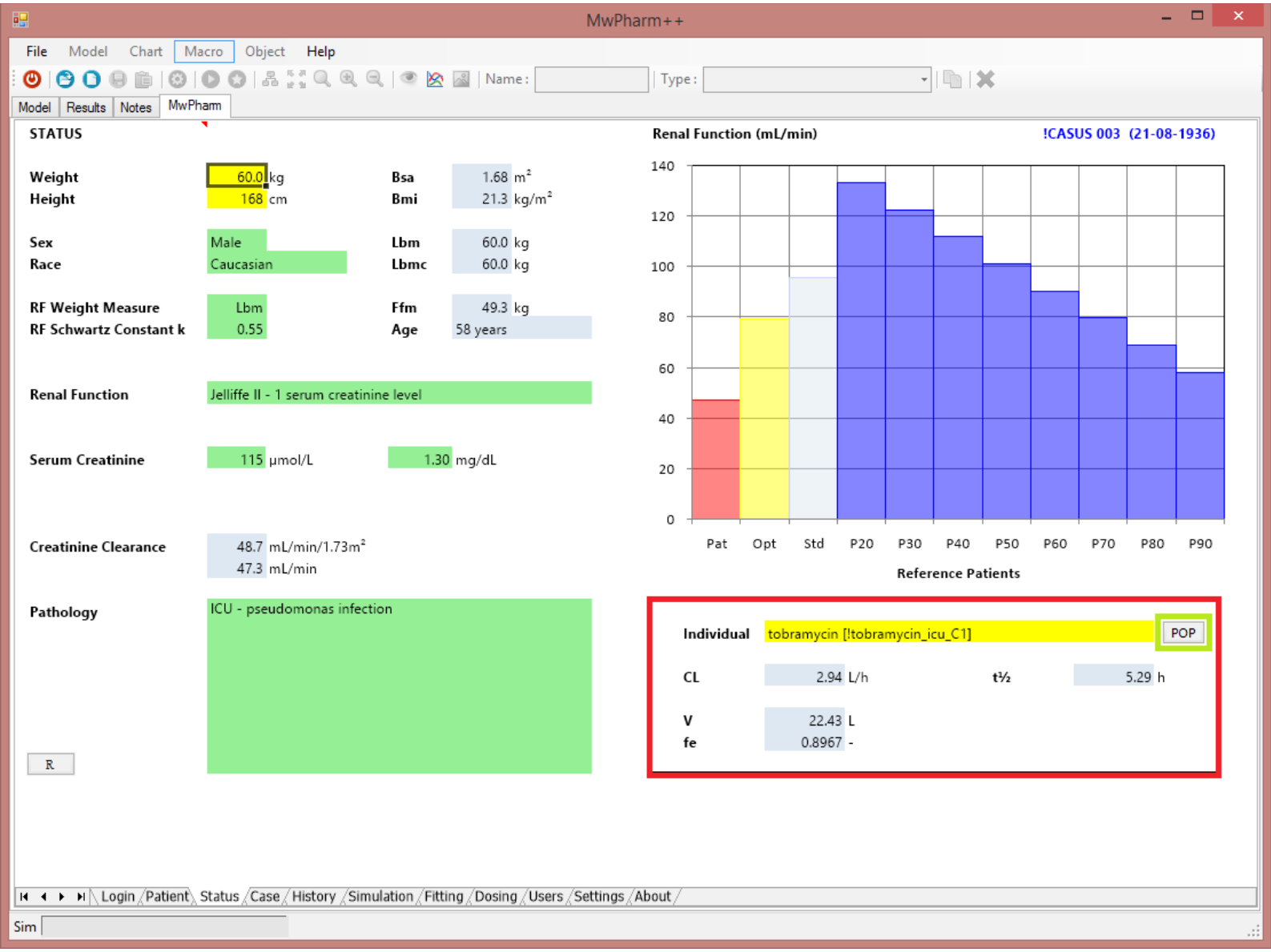
FITTING SCREEN

To fitt the PK parameters, click on **Fit** button. To Bayes fitting, check the **Bayes** checkbox.

In case of missing Bayesian Parameters, click on **B** button to generate Bayesian Parameters and then run the fitting.

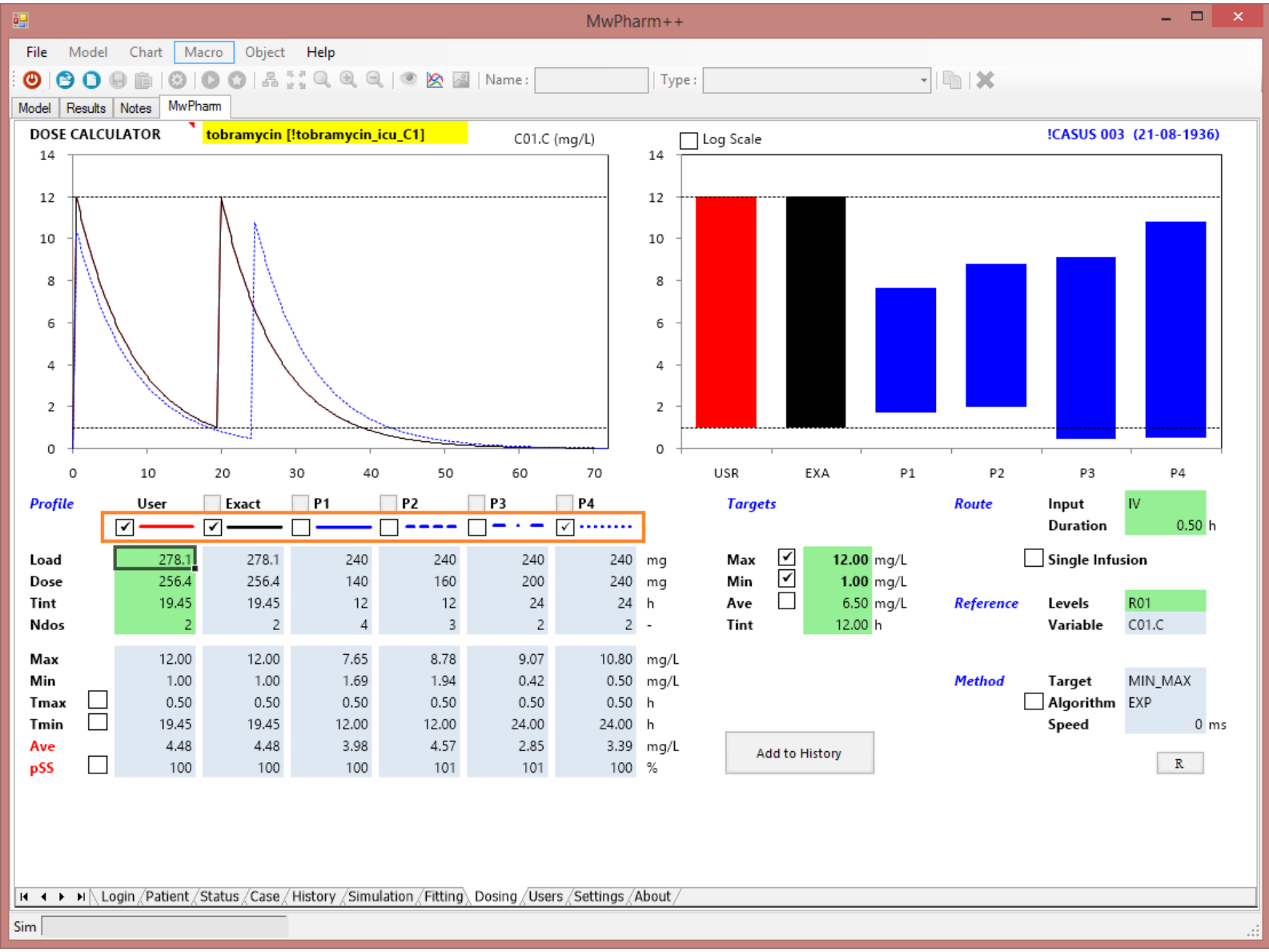


After the fitting, there are the individual PK parameters on the Status screen. Individual parameters can be deleted by clicking on **POP** button.

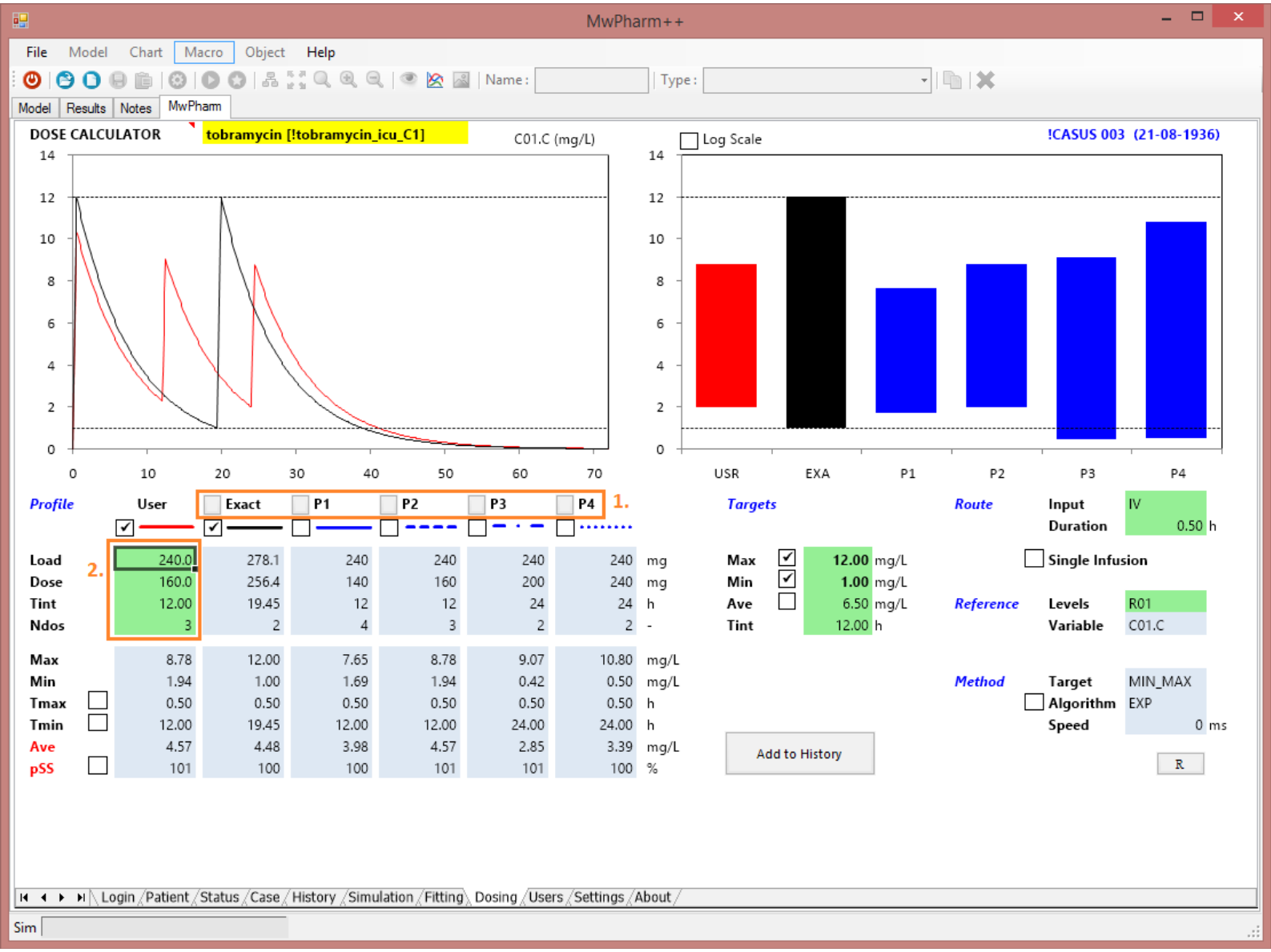


DOSING SCREEN

On Dosing screen it is possible to show different dosing regiments by checking to boxes.


MwPharm++
File Model Chart Macro Object Help
Model Results Notes MwPharm
DOSE CALCULATOR
tobramycin [!tobramycin_icu_C1]
C01.C (mg/L)
Log Scale
!CASUS 003 (21-08-1936)
USR EXA P1 P2 P3 P4
Profile User Exact P1 P2 P3 P4
Load 278.1 278.1 240 240 240 240 mg
Dose 256.4 256.4 140 160 200 240 mg
Tint 19.45 19.45 12 12 24 24 h
Ndos 2 2 4 3 2 2 -
Max 12.00 12.00 7.65 8.78 9.07 10.80 mg/L
Min 1.00 1.00 1.69 1.94 0.42 0.50 mg/L
Tmax 0.50 0.50 0.50 0.50 0.50 0.50 h
Tmin 19.45 19.45 12.00 12.00 24.00 24.00 h
Ave 4.48 4.48 3.98 4.57 2.85 3.39 mg/L
pSS 100 100 100 101 101 100 %
Targets
Max 12.00 mg/L
Min 1.00 mg/L
Ave 6.50 mg/L
Tint 12.00 h
Add to History
Route
Input IV
Duration 0.50 h
Single Infusion
Reference
Levels R01
Variable C01.C
Method
Target MIN_MAX
Algorithm EXP
Speed 0 ms
R
Login Patient Status Case History Simulation Fitting Dosing Users Settings About
Sim

Clicking on the **P*** buttons, it is possible to load pratical regiments to the user regiment to adjust loading dose, maintenance dose, time interval and number of doses.


MwPharm++
File Model Chart Macro Object Help
Name: Type:
Model Results Notes MwPharm
DOSE CALCULATOR
tobramycin [!tobramycin_icu_C1]
C01.C (mg/L)
Log Scale
!CASUS 003 (21-08-1936)
USR EXA P1 P2 P3 P4
Profile User Exact P1 P2 P3 P4 1.
Load 240.0 278.1 240 240 240 240 mg
Dose 160.0 256.4 140 160 200 240 mg
Tint 12.00 19.45 12 12 24 24 h
Ndos 3 2 4 3 2 2 -
2.
Max 8.78 12.00 7.65 8.78 9.07 10.80 mg/L
Min 1.94 1.00 1.69 1.94 0.42 0.50 mg/L
Tmax 0.50 0.50 0.50 0.50 0.50 0.50 h
Tmin 12.00 19.45 12.00 12.00 24.00 24.00 h
Ave 4.57 4.48 3.98 4.57 2.85 3.39 mg/L
pSS 101 100 100 101 101 100 %
Targets
Max 12.00 mg/L
Min 1.00 mg/L
Ave 6.50 mg/L
Tint 12.00 h
Add to History
Route
Input IV
Duration 0.50 h
Single Infusion
Reference
Levels R01
Variable C01.C
Method
Target MIN_MAX
Algorithm EXP
Speed 0 ms
R
Login Patient Status Case History Simulation Fitting Dosing Users Settings About
Sim